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(72) Erfinder; und

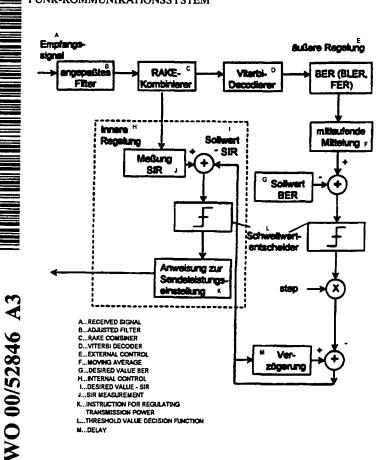
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[Fortsetzung auf der nächsten Seite]

(54) Title: METHOD FOR REGULATING THE TRANSMISSION POWER OF RADIO STATIONS IN A CDMA RADIO COM-MUNICATIONS SYSTEM

(54) Bezeichnung: VERFAHREN ZUR SENDELEISTUNGS-EINSTELLUNG VON FUNKSTATIONEN IN EINEM CDMA-FUNK-KOMMUNIKATIONSSYSTEM



- The invention relates to (57) Abstract: a method for regulating the transmission power of radio stations in a W-CDMA radio communications system, whereby an averaging of the quality evaluation is carried out on the receive side which guarantees a more precise criterion for the quality of the transmission conditions. A temporal variance of the received signal is determined on the receive side and an adjustment which is inversely proportional to the variance of the received signal is made to the averaging time for the mean value. If the averaging time has not been predetermined in a fixed manner, but follows the changes in the ratios of the radio interface, the regulation of the transmission power can be individually improved for each connection.
- (57) Zusammenfassung: Beim erfindungsgemäßen Verfahren zur Sendeleistungseinstellung von Funkstationen in einem W-CDMA Funk-Kommunikationssystem wird empfangsseitig eine Mittelung der Qualitätsbewertung durchgeführt, die ein genaueres Kriterium für die Qualität der Übertragungsbedingungen garantiert. Es wird empfangsseitig eine zeitliche Varianz des Empfangssignals bestimmt und die Mittelungszeit für den Mittelwert umgekehrt proportional zur Varianz des Empfangssignals angepaßt. Ist die Mittelungszeit nicht fest vorgegeben,

[Fortsetzung auf der nächsten Seite]

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- (81) Bestimmungsstaaten (national): CN, JP, US.
- (84) Bestimmungsstaaten (regional): europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Veröffentlicht:

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Zur Erklärung der Zweibuchstaben-Codes und der anderen Abkürzungen wird auf die Erklärungen ("Guidance Notes on Codes and Abbreviations") am Anfang jeder regulären Ausgabe der PCT-Gazette verwiesen.

Inten Inal Application No PCT/DE 00/00631

		PCT/DE	00/00631
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H0487/005		
According to	o International Patent Classification (IPC) or to both national classif	ication and IPC	
	SEARCHED		
IPC 7	ocumentation searched (classification system followed by classification $H04B$	tion symbols)	
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the f	ields searched
	lata base consulted during the international search (name of data t ternal, INSPEC	ase and, where practical search term	is used)
	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the r	elevant passages	Relevant to claim No.
X	EP 0 853 393 A (NIPPON TELEGRAPH TELEPHONE) 15 July 1998 (1998-07		1,4, 11-13, 15,16
Y	abstract; figures 2-4 column 1, line 45 -column 2, lin column 3, line 1 -column 4, line		2,17
X Furth	ner documents are listed in the continuation of box C.	Patent family members are	listed in annex.
'A' docume consid 'E' earlier of filing d 'L' docume which i citation 'O' docume other n 'P' docume later th	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) and referring to an oral disclosure, use, exhibition or means and prior to the international filing date but an the priority date claimed	"T" later document published after it or priority date and not in conflicted to understand the principal invention "X" document of particular relevance cannot be considered novel or involve an inventive step when "Y" document of particular relevance cannot be considered to involve document is combined with one ments, such combination being in the art. "8" document member of the same in the same i	ct with the application but e or theory underlying the specific to the cannot be considered to the document is taken alone or the claimed invention a ninventive step when the or more other such docu-obvious to a person skilled patent family
	9 January 2001	Date of mailing of the Internation	nal search report
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Sieben, S	
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Inter. anal Application No
PCT/DE 00/00631

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ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
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International application No.
PCT/DE 00/00631

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	emational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
	enational Searching Authority found multiple inventions in this international application, as follows: e supplemental sheet FURTHER INFORMATION PCT/ISA/210.
1. 🗶	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
† [No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims: it is covered by claims Nos.:
Remark	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International application No. PCT/DE 00/00631

FURTHER INFORMATION PCT/ISA/210

The International Searching Authority found that this International Application contains several inventions or groups of inventions, as follows:

1. Claims nos: 1-13, 14 (dep. on 2), 15-17

Determination of the temporal variance of the received signal and an inversely proportional adjustment to the averaging time for the mean value for the quality evaluation of the received signal. The quality evaluation can be based on a channel estimation, data detection or bit error rate. In addition, the adjustment value calculated from the mean value of the quality evaluation is applied to the desired value of an internal closed control.

2. Claims nos: 14 (dep. on 1)

Setting of the adjustment value calculated from the mean value of the quality evaluation to several possible values, in accordance with the size of the temporal variance.

information on patent family members

Inten onal Application No
PCT/DE 00/00631

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